



IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Millard E. Sweatt III, et al.
 SERIAL NO.: 09/925,109
 FILING DATE: August 8, 2001
 TITLE: Method & System for Remote Television Replay Control
 EXAMINER: Unknown
 GROUP ART UNIT: Unknown
 ATTY. DKT. NO.: 22407-03951

CERTIFICATE OF MAILING

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Signature:

Typed or Printed Name:	Sze-Hang Lo, Registration No. 48,388	Dated:	Nov. 9, 2001
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LETTER TO THE CHIEF DRAFTSPERSON

SIR:

Please substitute the enclosed **34 sheets** of formal drawings containing **Figures 1- 31** for the 31 sheets of drawings containing Figures 1-31 previously submitted.

Respectfully submitted,
 MILLARD E. SWEATT III, ET AL.

Dated: November 9, 2001

By:

Sze-Hang Lo, Registration No. 48,388
 FENWICK & WEST LLP
 Two Palo Alto Square
 Palo Alto, CA 94306
 Tel.: (415) 875-2368
 Fax: (415) 281-1350

22407/05391/SF/5062447.1

20126/02234/508623 V

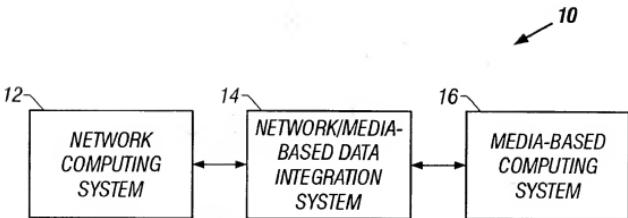


FIG. 1A

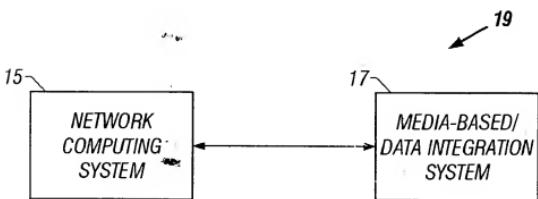
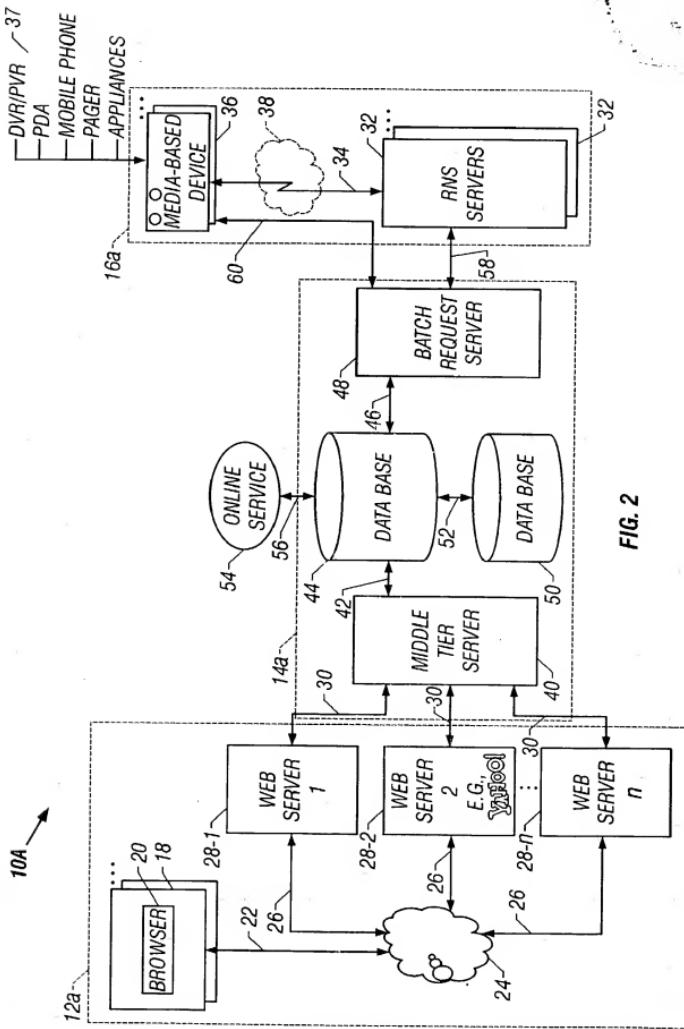


FIG. 1B



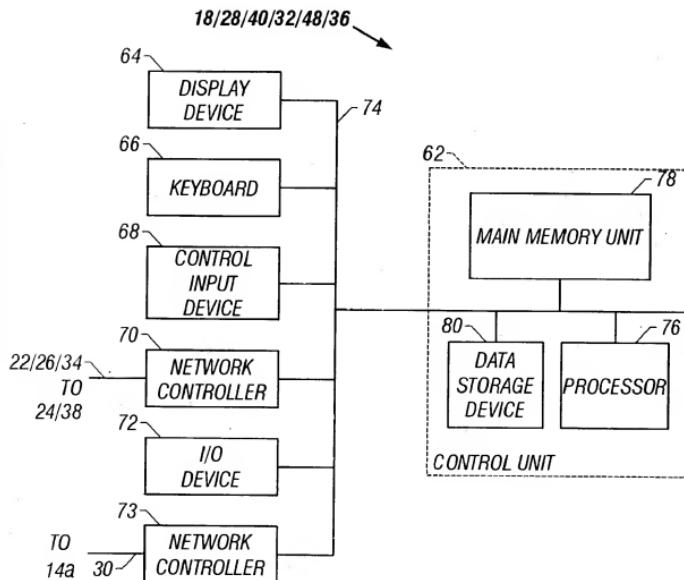


FIG. 3

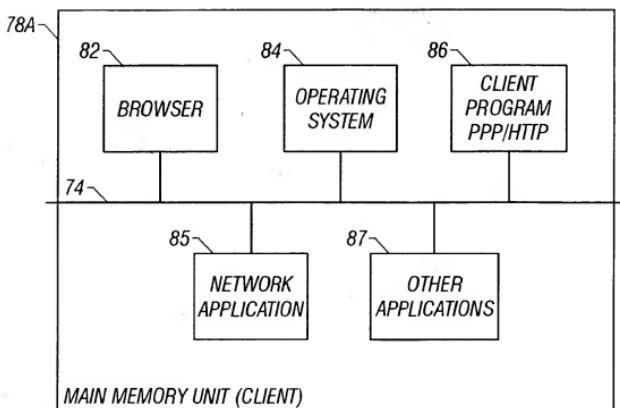


FIG. 4A

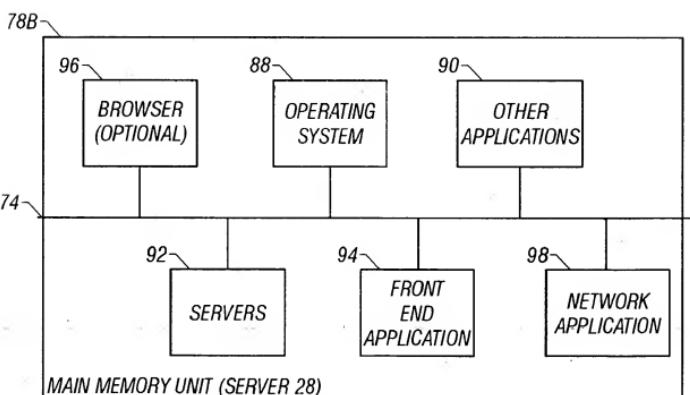


FIG. 4B

78C

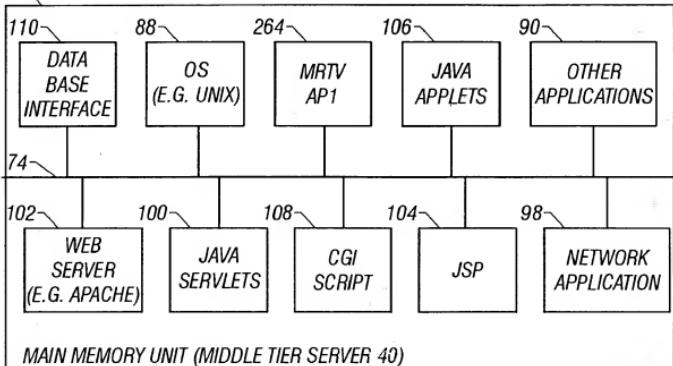


FIG. 4C

78D

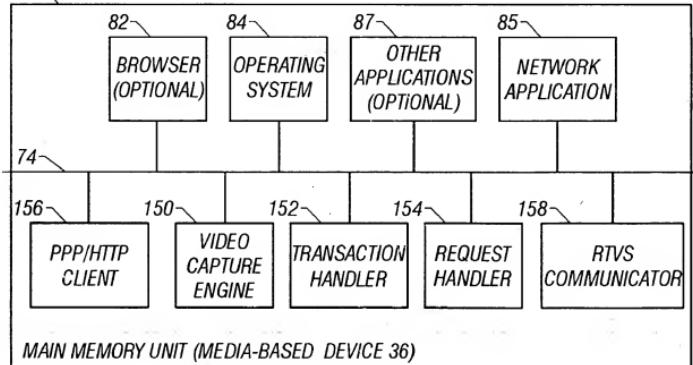
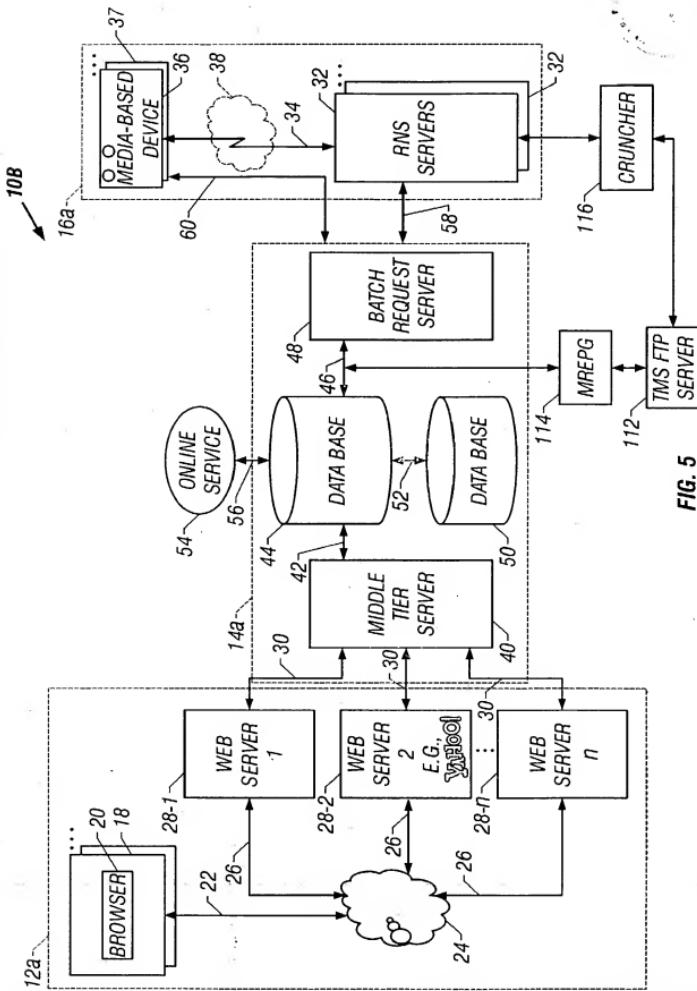


FIG. 4D



APPLICATION NO: 09/925,109
Filed: August 8, 2001
Inventors: Millard E. Sweat III et al.
Title: Method & System for Remote Television
Replay Control
Serial No. 7 n^o 34

09925109 .080801

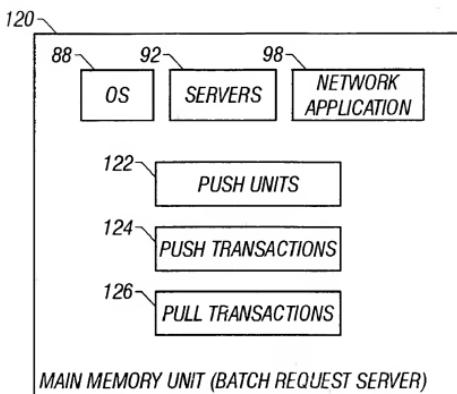


FIG. 6

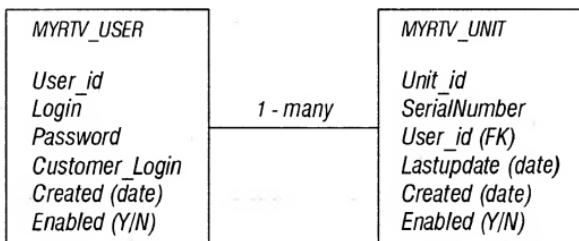


FIG. 7

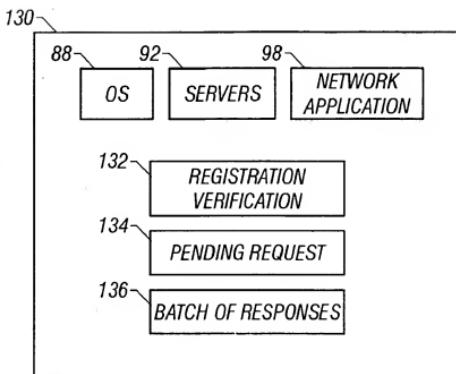


FIG. 8

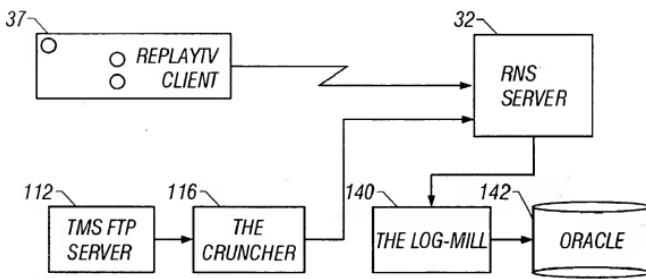


FIG. 9

APPLICATION NO: 09/925,109

Filed: August 8, 2001

Inventors: Millard E. Sweat III et al.

Title: Method & System for Remote Television

Replay Control

Sheet 4 of 34

09925109.080801

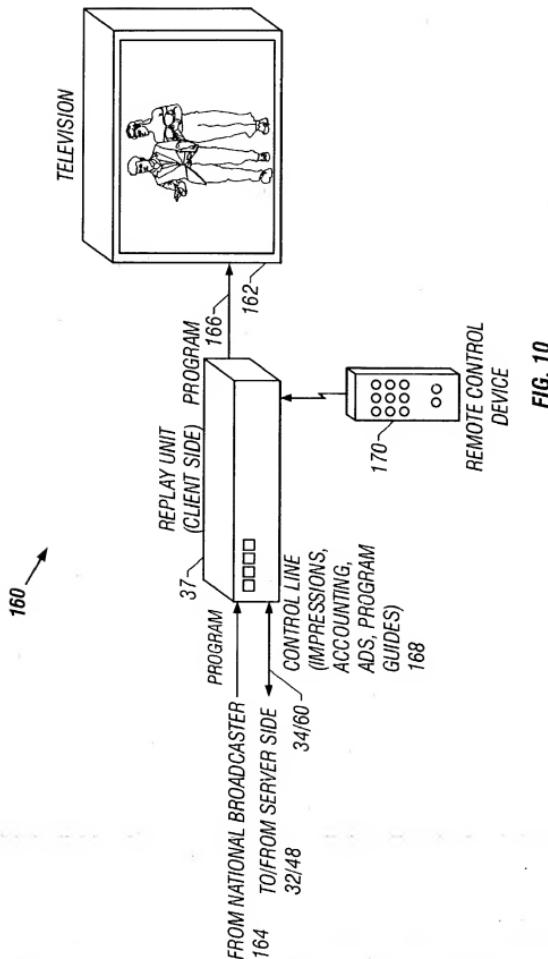


FIG. 10

180-

my r replaytv

Marketing/promotional information

182 184

User name: [Sign on](#)

Password: [Forgot my password](#)

Remember my password

Are you a new user to the myreplaytv webbase? [Register](#)

[Help](#) [Contact us](#)

FIG. 11

Preferences Help Logout

my r replaytv

Channel Guide Replay Guide Find Shows Manual Record

Channel Guide

192

195	197	194	196	198	200
<input checked="" type="checkbox"/> <input type="checkbox"/>			<input type="checkbox"/> <input checked="" type="checkbox"/>		

Today 03/06 ▼ 6 pm ▼ 0 OXYGEN ▼ GO

Tue 3/06

	6:00 PM	6:30 PM	7:00 PM	7:30 PM
204	0 OXYGEN	An Officer and a Gentleman	Scary Movie	
1 IN1	Me, Myself & Irene	Spin City	Seinfeld	Spin City
2 KTVU	6 O'Clock Ne...		Local Origination	
3 LOOR003	Local Origination		Frasier	Entertainmen...
4 KRON	NewsCenter 4 at 6	Channel 5 Ey...	Evening Maga...	Hollywood Sq...
5 KPIX	CBS News	Balitz...	Family Feud	Family Feud
6 KICU	Home Improve...	The Nanny	Jeopardy!	Wheel of For...
7 KGO	ABC 7 News at 6pm		Little Saigo	Mandarin New...
8 KTSF	TV Patrol	Nightly Busi...	The NewsHour With Jim Le...	
9 KQED	Zoboomafoo	French Field...	Antiques Roa...	EastEnders
10 KTEH	BBC World Ne...	TV Guide	TV Guide	
11 TVGOS		3rd Rock Fro...	Friends	Friends
12 KBHK	The Simpsons	Divorce Cour...	Power of Att...	The Drew Car...
13 KBWB	The Drew Car...	Noticiero Un...	Carita de Angel	
14 KDTV	Noticias 14			

206

208

190

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FIG. 12A

09925109.0000801

View Description	2 KTVU ▽	4 PM	1-15 ▽
Record	◦ 4 KRON	5 PM	16-30
Record all episodes	◦ 5 KPIX	6 PM	31-45
Record + change options	◦ 6 FAM	7 PM	46-60
Find all episodes	◦ 7 KGO	8 PM	61-75
Close	◦ 8 KRCB	9 PM	76-90
218 ↴	◦ 9 KQED	10 PM	91-105
	◦ 10 KDTV	11 PM	106-120
	◦ 11 KICU	12 AM	121-145
	◦ 12 KBHK	214 ↴	216 ↴
	◦ 13 KBWB		146 ↴
	◦ 14 CNN		
	◦ 15 DISN		
	◦ 16 QV		
View Description			
Find all episodes			
Turn off recording			
Change record options			
Close			
220 ↴			

FIG. 12B

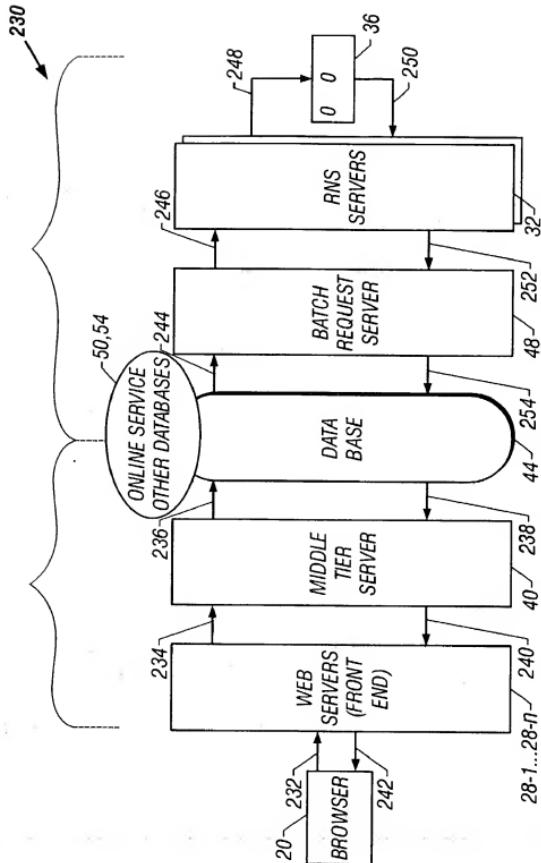


FIG. 13A

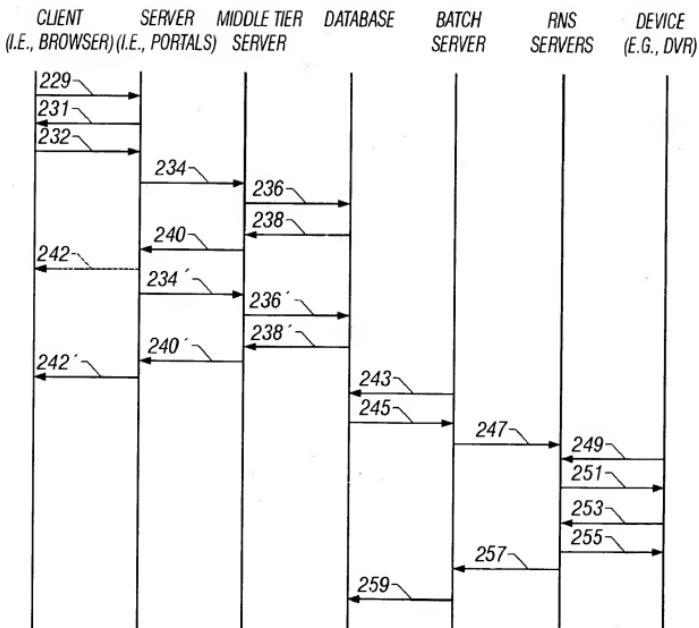
SEQUENCE DIAGRAM

FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specified show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's setting
ChangePassword	Lets the user changes his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serialnumber, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-1) REPLAYERROR.XML
AddRequest	userid, unitid, rectype(none, show, theme, update) <u>rectype=show</u> : showtype(single, repeat, manual single, manual repeat), headendid, tmsid, device, starttimegmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, earlystartminutes, showguaranteed <u>rectype=theme</u> : searchterm, searchflags, suzukiid, durationinminutes, quality, guaranteedrecord <u>rectype=update</u> : updatetype(deleteshow, preserveshow, deletechannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-1) REPLAYERROR.XML *Note: REQUESTSTATUS Result=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE)
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML REPLAYERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLACEMENTCHANNEL-1) REPLAYERROR.XML *Note: REPLACEMENTCHANNEL Type:=(SINGLE, SINGLEMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEACT, ZONE)
GetChannelLineUp	userid, unitid	CHANNELLINEUP.XML (CHANNEL-1) REPLAYERROR.XML
ChangePassword	userid, currentpassword, newpassword	ACCOUNT.XML REPLAYERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mpaarating, title, etc.	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML

FIG. 15

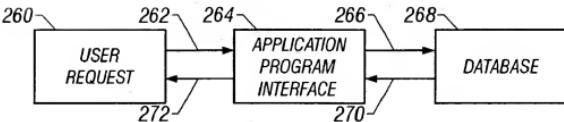


FIG. 16A

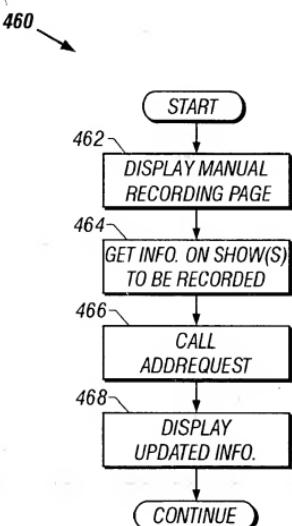


FIG. 25

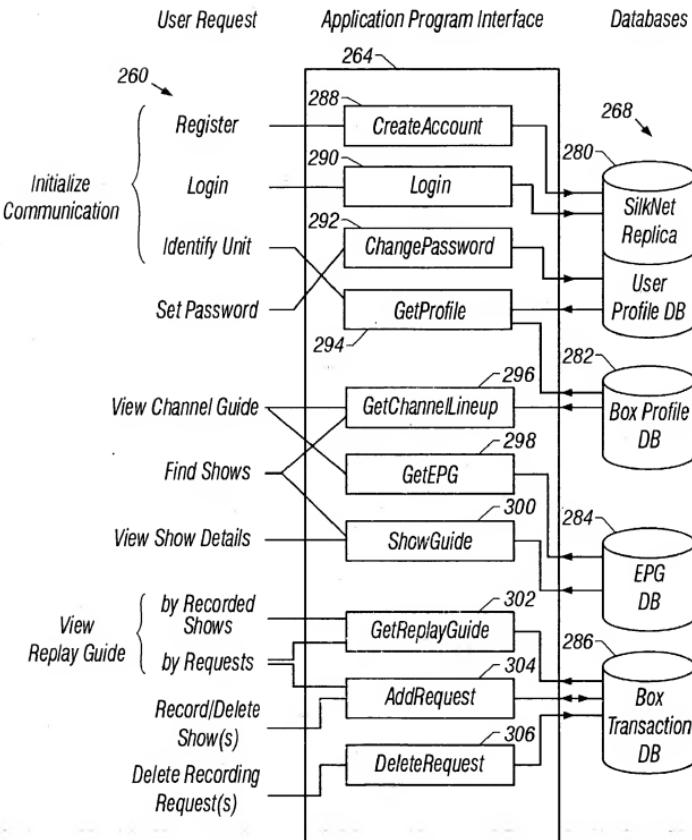


FIG. 16B

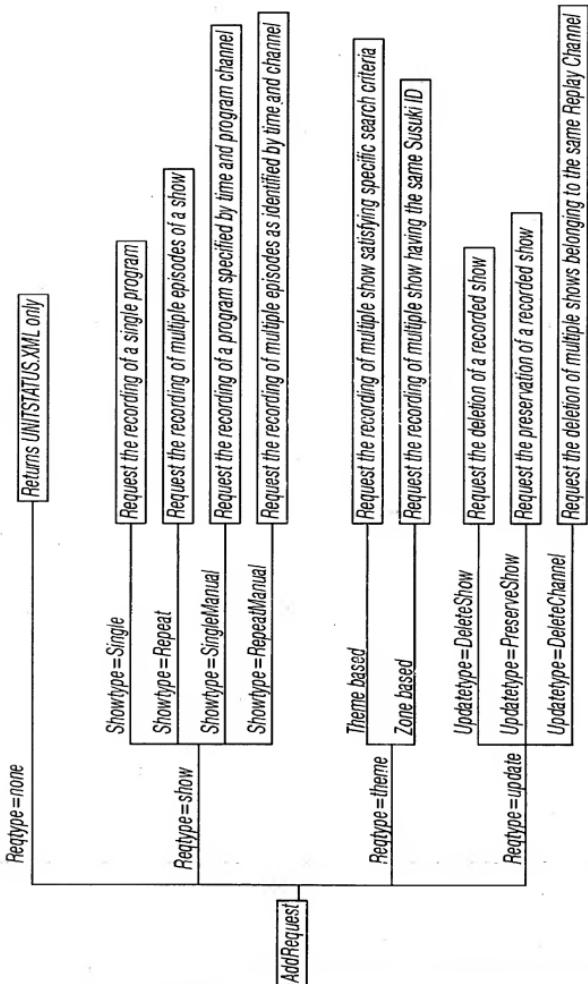


FIG. 17

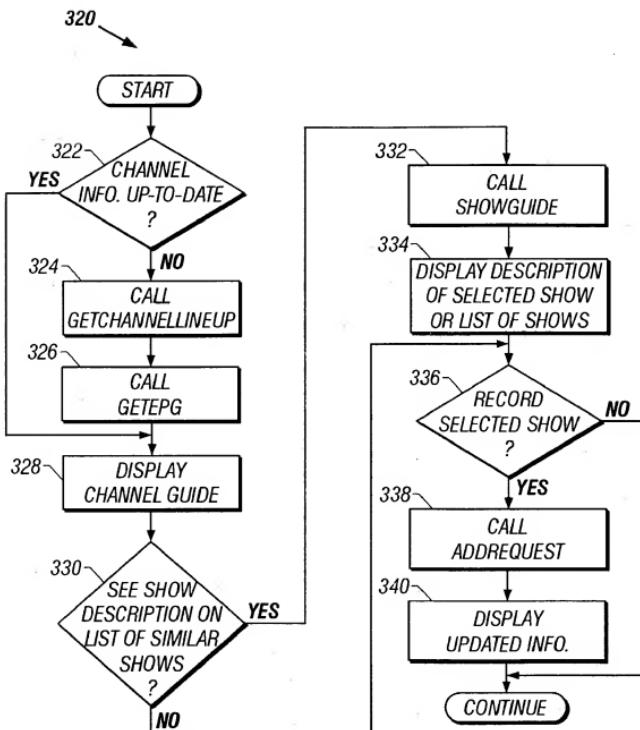


FIG. 18

my  replaytv

Preferences Help Logout

Channel Guide Replay Guide Find Shows Manual Record

Replay Guide

Replay Shows | Replay Channels | 350

Review and edit your one time and recurring Replay TV requests



Channel	Details	Status	Request Date
<input type="checkbox"/> A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21 (TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		02/18
<input type="checkbox"/> Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42 (USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16
<input type="checkbox"/> Cantonese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8 (KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		02/28
<input type="checkbox"/> Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49 (AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/09

FIG. 19A

my r replaytv		Preferences	Help	Logout	
		Channel Guide	Replay Guide	Find Shows	Manual Record
Replay Guide					
Replay Shows Replay Channels					350
Review and edit recordings saved to your Replay TV unit					
 Delete Selected Channels					
Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars	02/18 7:00AM	21 TBS	(2h)	6.46%
Blown Away	<input type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input type="checkbox"/> Captain January	01/09 3:30AM	49 AMC	(1h 30m)	4.84%
Firewalker	<input type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNTP	(2h 30m)	8.07%
The Bridge on the River Kwai	<input type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%
The Trouble with Harry	<input type="checkbox"/> The Trouble with Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%
Welcome to ReplayTV	<input type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

FIG. 19B

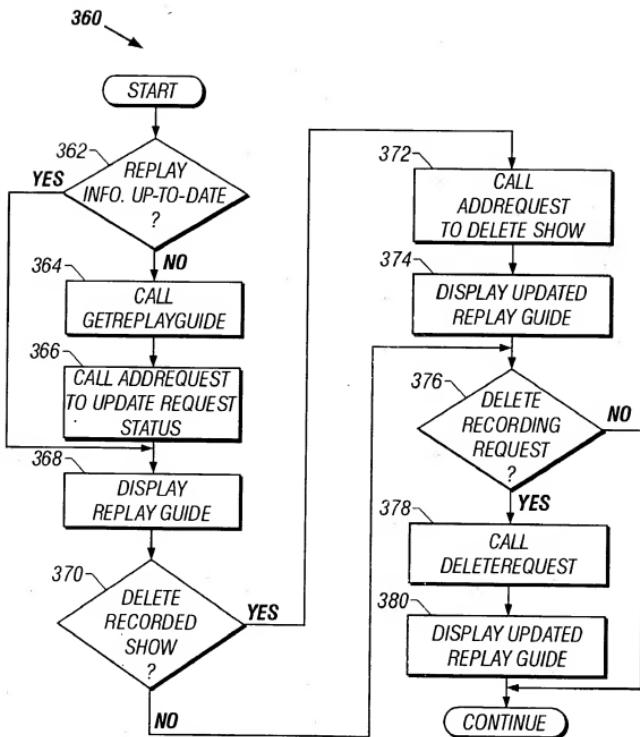


FIG. 20

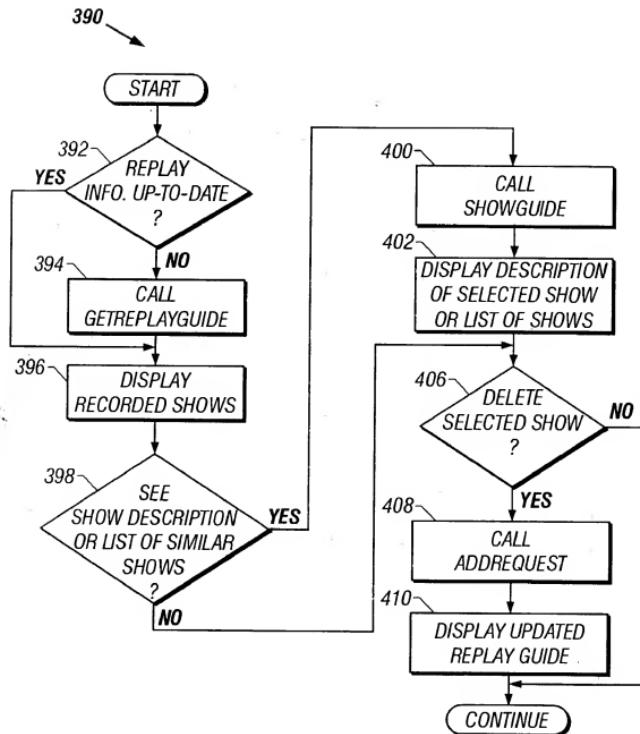


FIG. 21

my r replaytv

Channel Guide | Replay Guide | Find Shows | Manual Record

Find Shows

Find:

in these categories:

Show Titles Actors
 Descriptions Directors [Find Shows](#)

Enter the word or phrase that you wish to find.

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FIG. 22

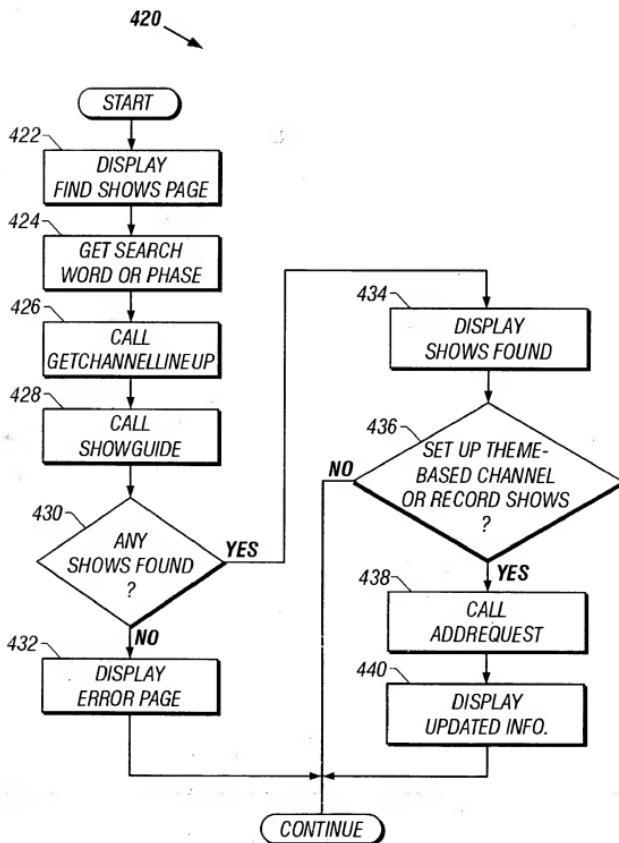


FIG. 23

450 ↴

Preferences	Help	Logout
Channel Guide	Replay Guide	Find Shows
Manual Record		
Single Recording Repeat Recording		
Start Date	<input type="button" value="Mar ▾"/> 7 ▾	<input type="button" value="2001 ▾"/>
Start Time	<input type="checkbox"/> : <input type="checkbox"/> AM	} Recording duration:
End Time	<input type="checkbox"/> : <input type="checkbox"/> AM	
Channel	<input type="button" value="OXYGEN ▾"/>	
Quality	<input type="button" value="Extended ▾"/>	
Guaranteed	<input type="checkbox"/> Yes ▾	
Submit Request!		
Copyright Policy Terms and Conditions Privacy Policy FAQ		

FIG. 24A

my r replaytv

[Channel Guide](#) [Find Shows](#) [Manual Record](#) [Replay Guide](#) [Logout](#) [Preferences](#) [Help](#)

Manual Record

[Single Recording](#) [Repeat Recording](#)

3h-15m available at medium quality
as of last connection

Days	<input type="checkbox"/> Mon	<input checked="" type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat	<input type="checkbox"/> Sun	
Start Time	11:58	PM	End Time 11:02 PM					
Channel	4 KRON		<input type="button" value="▼"/>					
Quality	Standard		<input type="button" value="▼"/>					
Guaranteed	Yes		<input type="button" value="▼"/>					
<input type="button" value="Submit Request"/>								

452-7

FIG. 24B

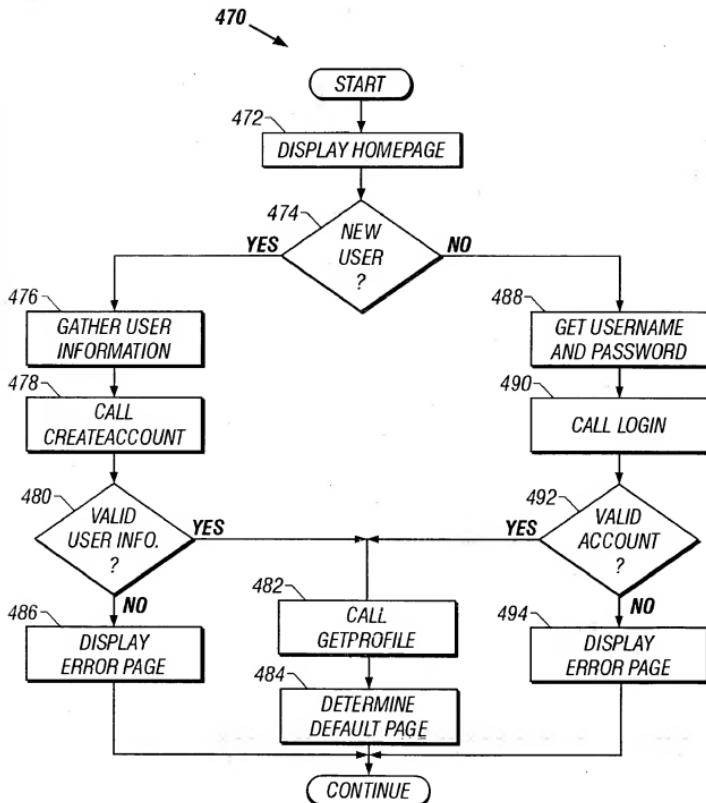


FIG. 26

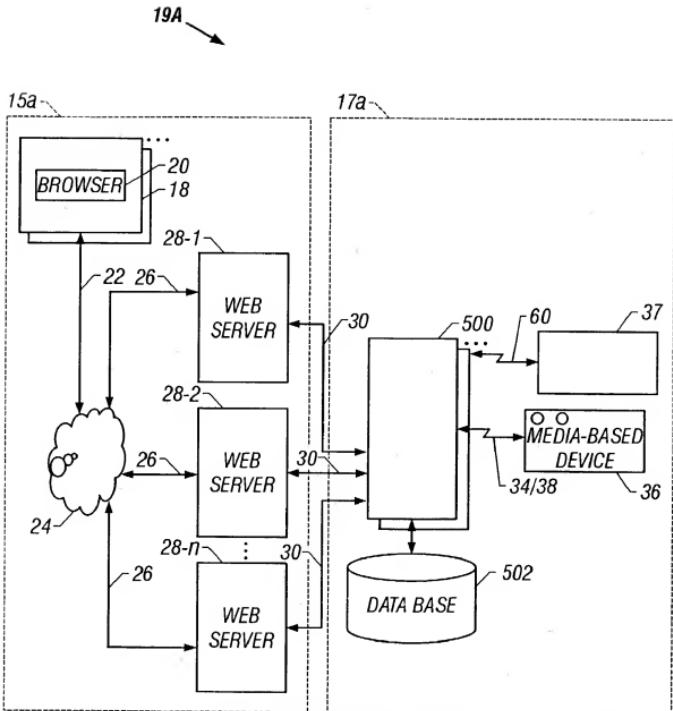


FIG. 27

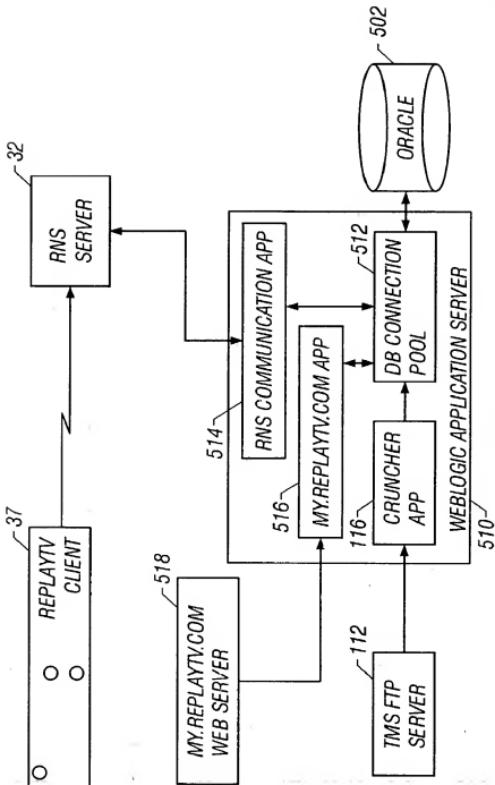


FIG. 28

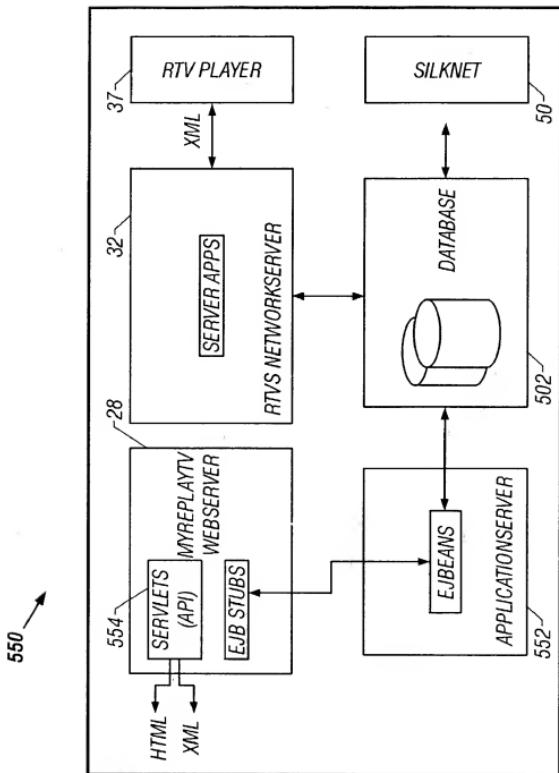


FIG. 29

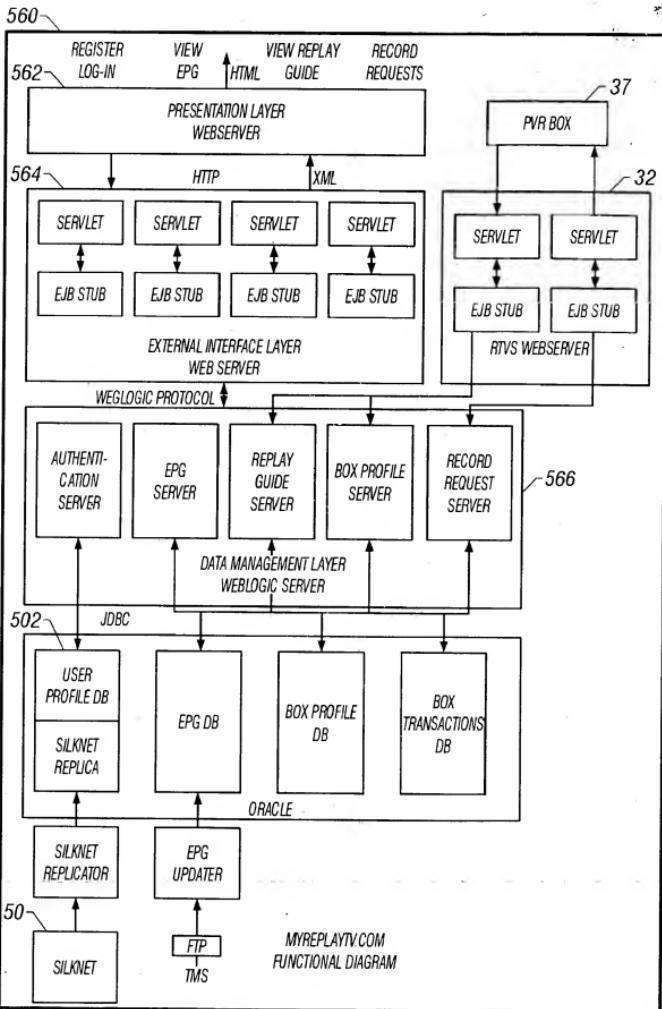


FIG. 30

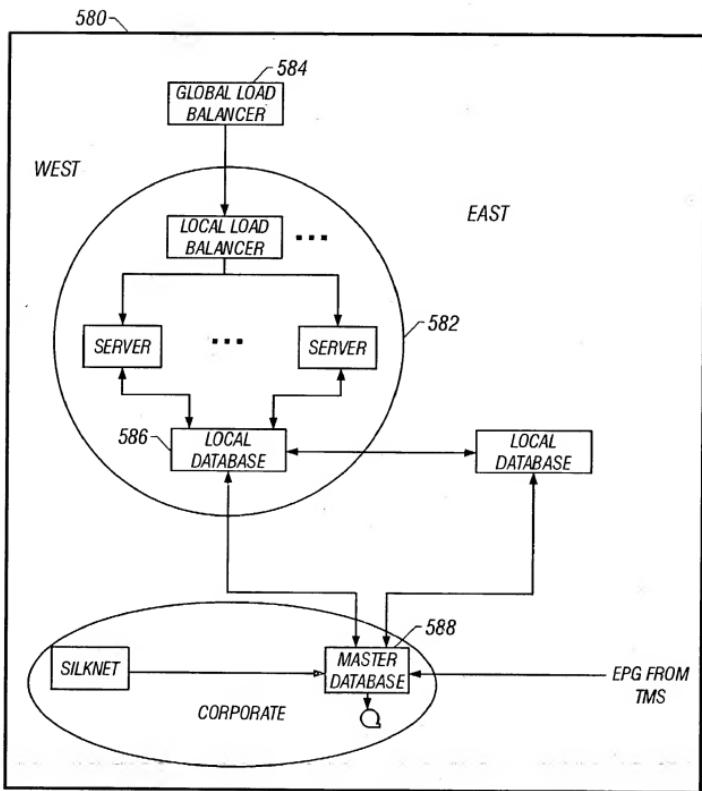


FIG. 31